

IN THE CLAIMS

1. (previously presented) A control method for a main unit and an electronic device removably connected thereto, comprising:

providing a register in the electronic device, the register having a write area and a read area for setting of codes of functions representing different types of devices and to be executed by the electronic device;

providing an add-on register in the electronic device, the add-on register being coupled to the register through a system control circuit, the system control circuit being operable to supply a control signal for driving a memory controller connected to the register;

writing the code of a function requested by the main unit in the write area of the register; and

controlling, by the main unit, execution of the requested function based upon at least the code of the function read out from the read area, the step of controlling further comprising

comparing the code of the function read out from the read area with the code of the function in the write area,

determining that the function associated with the code written in the write area is installed in the electronic device if the comparison indicates a match, and

determining that the function associated with the code written in the write area is not installed in the electronic device if the comparison does not indicate a match.

2. (previously presented) A control method according to claim 1, wherein the electronic device includes a memory, said method further comprising providing a list of the codes of the functions to be executed at a predetermined address in the memory.

3. (previously presented) A control method according to claim 2, further comprising accessing the predetermined address by the main unit to determine the function to be executed.

4. (previously presented) A control method according to claim 1, wherein said writing step includes writing the code of an arbitrary function in the write area, and said reading step includes reading the code of a function selected in the electronic device and a code associated therewith, whereby the main unit determines the function to be executed.

5. (original) A control method according to claim 4, wherein the main unit enables the function to be executed based on the determination.

6. (currently amended) An electronic device removably connectable to a main unit for exchanging data with the main unit and for executing a plurality of functions, comprising:

a register for setting codes of functions to be executed by the electronic device and representing different types of devices, the register including a write area in which the code of a function requested by the main unit is written, and a read area in which the code of a function selected in the electronic device is read and detected by the main unit to allow the main unit to enable the requested function; and

an add-on register being coupled to the register through a system control circuit, the system control circuit being operable to supply a control signal for driving a memory controller connected to the register, and

wherein the requested function can be executed if the code of the function written in the write area is the same as the code of the function read from the read area.

7. (previously presented) An electronic device according to claim 6, further including a memory, the memory including at a pre-determined location a list of the codes of the functions to be executed.

8. (cancelled)

9. (cancelled)

10. (previously presented) An electronic device according to claim 6, wherein the electronic device is adapted to enable execution of the function requested by the main unit based on a determination made by the main unit.

11. (currently amended) A system for enabling detection of a requested function, comprising:

a main unit;

an electronic device removably connectable to the main unit for exchanging data with the main unit and for executing a requested function, the electronic device comprising a register for performing setting of category numbers of functions to be executed by the electronic device and representing different types of devices, the register including a write area in which the category number of a function requested by the main unit is written, and a read area in which the category number of a function selected in the electronic device is read and detected by the main unit to control processing of the requested function by the main unit; and

an add-on register ~~having being~~ coupled to the register through a system control circuit, the system control circuit being operable to supply a control signal for driving a memory controller connected to the register, and

wherein the main unit recognizes that the requested function is installed in the electronic device if the category number of the function written in the write area is the same as the category number of the function read from the read area.

12. (previously presented) The system according to claim 11, wherein the electronic device further comprises a memory, the memory including at a predetermined location a list of the category numbers of the functions to be executed.

13. (previously presented) The system according to claim 12, wherein the main unit is adapted to determine the function to be executed by accessing the predetermined location.

14. (previously presented) The system according to claim 11, wherein the main unit is adapted to determine the function to be executed by writing the category number of an arbitrary function in the write area, and by reading the category number of a function selected in the electronic device from the read area.

15. (previously presented) The system according to claim 14, wherein the main unit is adapted to enable the function to be executed based on the determination.

16. (previously presented) A main unit adapted to removably receive an electronic device having a register including a write area and a read area, the main unit comprising:

an interface for removably connecting the electronic device and enabling the exchange of data between the main unit and the electronic device, the electronic device further including an add-on register being coupled to the register

through a system control circuit, the system control circuit being operable to supply a control signal for driving a memory controller connected to the register, and

wherein the main unit is adapted to write a code of a function requested by the main unit in the write area, to read a code of a function to be executed from the read area and to control execution of the requested function in the electronic device based on the read code, the codes representing functions associated with different types of devices, and

wherein the requested function is not executed if the main unit determines from a comparison of the code written in the write area and the code read from the read area that the requested function is not installed in the electronic device.

17. (previously presented) The main unit according to claim 16, wherein the electronic device has a memory, the memory including at a predetermined address a list of codes of the functions to be executed and codes associated therewith, and wherein the main unit is adapted to determine the function to be executed by accessing the predetermined address.

18. (previously presented) The main unit according to claim 17, further comprising an add-on driver activated upon the main unit determining the function to be executed.

19. (previously presented) The main unit according to claim 18, wherein the add-on driver enables the function to be executed based upon the determination.